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TECH CENTER 1600/2802

SEQUENCE LISTING



<110> SIN, Yoke Min  
LAM, Toong Jin  
GONG, Zhiyuan

<120> A RECOMBINANT VACCINE AGAINST FISH INFECTIOUS DISEASES

<130> Applied Research

<140> 09/196,161

<141> 1998-11-20

<150> 9803188-3

<151> 1998-09-28

<160> 11

<170> PatentIn Ver. 2.1

<210> 1

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<221> MUTAGEN

<222> (2)

<223> A/S WHERE S HAS BEEN DERIVED FROM THE SYNTHETIC  
GENE.

<220>

<221> MUTAGEN

<222> (4)..(105)

<223> Q - THE GLUTAMINE CONDONS TAA AND TAG IN THE  
ORIGINAL SEQUENCE, HAVE BEEN REPLACED WITH THE  
UNIVERSAL GLUTAMINE CONDONS CAG AND CAA IN THE  
SYNTHETIC GENE

<220>

<221> MUTAGEN

<222> (34)

<223> V/G WHERE G HAS BEEN DERIVED FROM THE SYNTHETIC  
GENE

<220>

<223> Description of Artificial Sequence: synthetic  
oligonucleotides.

a'

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Gly Ala Ala Gln Gly Glu Ala Asn Gly Asn Gln Pro Phe Ala Ala Asn  
1 5 10 15

Asn Ala Ala Arg Gly Ile Cys Val Pro Cys Gln Ile Asn Arg Val Gly  
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Ser Val Thr Asn Ala Gly Asp Leu Ala Thr Leu Ala Thr Gln Cys Ser  
35 40 45

Thr Gln Cys Pro Thr Gly Thr Ala Leu Asp Asp Gly Val Thr Asp Val  
50 55 60

Phe Asp Arg Ser Ala Ala Gln Cys Val Lys Cys Lys Pro Asn Phe Tyr  
65 70 75 80

Tyr Asn Gly Gly Ser Pro Gln Gly Glu Ala Pro Gly Val Gln Val Phe  
85 90 95

Ala Ala Gly Ala Ala Ala Ala Gly Val  
100 105

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<211> 317

<212> DNA

<213> Ichthyophthirius multifiliis

<220>

<221> CDS

<222> (1)..(30)

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aggtgactta gctacttttag ccacataatg cagtacttaa tgtcctactg gcaactgcaact 170

tgatgatgga gtgacagatg tttttgatag atcagccgca taatgtgtta aatgcaaacc 230

taacttttac tataatggtg gtctctctta aggtgaagct cctggcggtt aagtttttgc 290

tcgctggtgc tgccgctgca ggtgttg 317

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Gly Glu Ala Asn Gly Asn  
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<210> 4  
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<213> Ichthyophthirius multifiliis

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gctacttttag ccacacaatg cagtactcag tgtcctactg gcactgcact tgatgatgga 180  
gtgacagatg tttttgatag atcagccgca cagtgtgtta aatgcaaacc taacttttac 240  
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<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotides

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<210> 6  
<211> 60  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: synthetic  
oligonucleotides

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<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
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<210> 8

<211> 59

<212> DNA

<213> Artificial Sequence

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<212> DNA

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<211> 17

<212> DNA

<213> e. coli (XL1-Blue strain, Stratagene)

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tagcatggcc ttgcag

17

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